8500210

HHE UNKHED SHAYES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Dairyland Seed Co., Inc.

Colherens, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exclude others from selling the variety, or offering it for sale, or reproducing it, or importing it, or exporting it, or using it in producing a hybrid or different lety therefrom, to the extent provided by the Plant Variety Protection Act At. 1542, as amended, 7 u.s.c. 2321 et seq.)

SOYBEAN

'DSR-297'

In Institution Withercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D. C. this 30th day of January in the year of our Lord one thousand nine hundred and eighty-seven.

Herrico Ta Exercisioner

Stant Variety Protection Office
Agricultural Marketing Service

Suchard E. Tyry
Secretary of Agriculture

U.S. DEPARTMENT	OF AGRICULT	TURE				: OMB NO, 0581-0055
AGRICULTURAL MA	ARKETING SEF	RVICE		Appli	cation is requi	red in order to determine otection certificate is to
				if a pi	ued (7 U.S.C.	2421). Information is
APPLICATION FOR PLANT VARI	ETY PROTI s on reverse)	ECTIO	N CERTIFICATE	held	confidential u S.C. 2426).	ntil certificate is issued
	s On reverse,	7. +-	NADODA DV OFOICNATIO			
1. NAME OF APPLICANT(S)		2. ⊤€	MPORARY DESIGNATIO		ARIETY NAN	,
Dairyland Seed Company, Inc	•	İ	28382	D)	SR-297 	
4. ADDRESS (Street and No. or R.F.D. No., City, Sta	te, and Zip Code	5. PH	ONE (Include area code)			IAL USE ONLY
3570 Hwy. H, P. O. Box 958	•			PVPC	NUMBER	
West Bend, WI 53095			414-338-0163		3500210	,
6. GENUS AND SPECIES NAME	7. FAMILY N	AME (B	otanical)	<u> </u>	DATE	
	_	•		FILING	9/16/8	b
Glycine max	гев	uminosae		E	2:00	Па.м. Т Р.М.
8. KIND NAME	<u> </u>	a DATE	OF DETERMINATION		AMOUNT F	OR FILING
, KIND HAWL		J. DATE		۾ ا	\$1,800	
Soybean			Jan. 21, 1985	<u> </u>	8/1/85	
				RECEIVED	1 ' '	OR CERTIFICATE
 IF THE APPLICANT NAMED IS NOT A "PERSO partnership, association, etc.) 	N," GIVE FOR	MOFO	RGANIZATION (Corporati	FEES F	s 200	<u> 00</u>
0				Ξ.	DATE	1/01
Corporation					1 //	6/8/
11. IF INCORPORATED, GIVE STATE OF INCORP	ORATION			12.	_	CORPORATION
Wisconsin 13. NAME AND ADDRESS OF APPLICANT REPRE	CENTATIVE(C)	IE ANS	/ TO SERVE IN THIS APP	PLICATIO	Dec. 19	
				210/4170	,	•
Mr. Thomas G. Strachota, Da 3570 Hwy. H, P. O. Box 958	iryiand s	eea c	O., Inc.			
West Bend, WI 53095						
west Bend, wi 55095			PHONE (Include	area cod	e): 414	-338-0163
14 CHECK APPROPRIATE BOX FOR EACH ATTA						
a. Exhibit A, Origin and Breeding History o	f the Variety (S	lee Sectio	on 52 of the Plant Variety	Protectio	m Act.)	
b. L Exhibit B, Novelty Statement.	co	£	Disease Waston Department (Office 1		
c. X Exhibit C, Objective Description of Varied. Exhibit D, Additional Description of Var		m Jrom	Plant Variety Protection)))100.)		
c. Exhibit E. Statement of the Basis of App		hip.				
15. DOES THE APPLICANT(S) SPECIFY THAT SEE	D OF THIS VA	RIETY	SE SOLD BY VARIETY N	AME ON	Y AS A CLA	SS OF CERTIFIED
SEED? (See Section 83(a) of the Plant Variety Pr		т	Yes (If "Yes," ansi			
16. DOES THE APPLICANT(S) SPECIFY THAT THE LIMITED AS TO NUMBER OF GENERATIONS			17. IF "YES" TO ITEM 1 BEYOND BREEDER	6, WHICI SEED?	H CLASSES U	FPRODUCTION
Yes X No			Foundation	. 🔲	Registered	Certified
18. DID THE APPLICANT(S) PREVIOUSLY FILE	FOR PROTEC	TION	F THE VARIETY IN TH	E U.S.?		Yes (If "Yes," give date)
in a					ل ــا	103 11 100 3 11
·	,		•		K	No ·
19. HAS THE VARIETY BEEN RELEASED, OFFE	RED FOR SAL	E OR N	MARKETED IN THE U.S.	OR OTH	ER COUNT	RIES ?
		•				Yes (If "Yes," give names of countries and dates)
			4		€ 7:	No 1
				1 1 :-1	· k nlice	
20. The applicant(s) declare(s) that a viable sam plenished upon request in accordance with s	ple of basic se such regulation	eds of t	his variety will be furnis v be applicable.	inea Witi	i the applica	tion and win oc ic
The undersigned applicant(s) is (are) the ow	ner(s) of this	exually	reproduced novel plant	variety.	and believe	(s) that the variety is
distinct, uniform, and stable as required in S	Section 41, and	d is enti	tled to protection unde	r the pro	visions of Se	ection 42 of the Plant
Variety Protection Act.	•					•
Applicant(s) is (arc) informed that false repr	esentation he	rein can	jeopardize protection a		t in penaltie	
SIGNATURE OF APPLICANT	1 11		- D		υΑΙΕ . _/¹ /	401
Man all male	755 V	10	E PRES.		6-7	-05
SIGNATURE OF APPLICANT	<u> </u>				DATE	1.5A4
						1,717

Dairyland Seed Co., Inc.

Exhibit A: Origin and Breeding History of Cultivar

 'DSR-297' is a soybean cultivar derived from a cross of 'Beeson' x 'Williams 79' by the pedigree method of breeding.

2.	Generation	<u>Step</u>
	Fo	Hand Cross
	F ₁	F, Increase
	$\mathbf{F}_{\mathbf{a}}^{\mathbf{I}}$	Selection
	\mathbf{F}_{2}^{\angle}	Selection
•	F_{λ}^{3}	Selection
	F 5	Increase
	F ₆	Yield Test
-73	\mathbf{F}_{7}^{0}	Yield Test-Increase
	$F_{\mathbf{Q}}'$	Yield Test-Increase
	$\mathbf{F}_{\mathbf{O}}^{\mathbf{O}}$	Yield Test-Increase

Dairyland Seed Company, Inc.

Exhibit A - Origin and Breeding History of the Variety

1. Statement on Uniformity - Variant Levels
'DSR-297' is a uniform and stable soybean cultivar with commercially acceptable and predictable variant levels as follows:

for flower color, up to 0.1% purple

for pubescence color, up to 0.32% gray

for hilum color, up to 1.48% non-brown, consisting of black, tan, buff, and yellow

for height, up to 0.2% taller (6-8" taller)

2. Statement on Stability - Generations of Reproduction

The following seed reproduction procedure should be used for 'DSR-297' to maintain its stability.

Each year or every other year, breeder seed will be produced from breeder seed of the previous generation. Each seed will be hand picked for uniformity, and the field rogued for any off-types.

Depending on the certifying state, foundation seed will be produced from this breeder seed for two generations in a foundation seed - recurrent foundation seed system or one year for each class in a foundation seed - registered seed system.

Certified seed will be but one generation.

Dairyland Seed Co., Inc.

Exhibit B: Novelty Statement

'DSR-297' is most similar to the cultivar 'DSR-207' in overall appearance, but differs in a couple characters. 'DSR-297' has large leaflets and a bushy plant type, while 'DSR-207' has medium sized leaflets and an intermediate plant type. The table below lists these differences:

•	Leaflet	
Cultivar	_Size	Plant Type
'DSR-297'	Large	Bushy
'DSR-207'	Medium	Intermediate

Dairyland Seed Company, Inc.

Addition to Exhibit B - Novelty Statement

'DSR-297' also differs from 'DSR-207' in being 7.3 days later in maturity than 'DSR-207'.

Data to support this are: Year: 1984	Data are days	from 12/31/83 'DSR-207'
rear: 1904	D3K-237	D3K-207
Locations:		
S.Wisconsin-Dryland	267	260
-Irrigated	·276	269
Light -Dryland	268	260
$\bar{\mathbf{x}}$	270.3a*	263.0b*
LSD .01 =	3.3	

*Difference is significant 0.01% level

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

(Soybean)

Revised 7 August 1985

OBJECTIVE DESCRIPTION OF VARIETY SOYREAN (Glycine max L.)

307BL	AN TOTY CITIE THAN E.	,
NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
Dairyland Seed Co., Inc.	28382	DSR-297
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Coo	de)	FOR OFFICIAL USE ONLY
P. O. Box 958		PVPO NUMBER
West Bend, WI 53095		8500210
Choose the appropriate response which characterizes the va	riety in the features described	below. When the number of significant digits
in your answer is fewer than the number of boxes provided	, place a zero in the first box w	hen number is 9 or less (e.g., [0 9]).
1. SEED SHAPE:) •	
	, <u> </u>	
L W	1 1 1	الأمار المستعدد المست
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	2 = Spherical Flattened 4 = Elongate Flattened	(L/W ratio > 1.2; L/T ratio = < 1.2) (L/T ratio > 1.2; T/W > 1.2)
2. SEED COAT COLOR: (Mature Seed)		
1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other	(Specify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)		· · · · · · · · · · · · · · · · · · ·
and the <mark>Military and Co</mark> lland and the contract of the contrac	oy'; 'Gasoy 17')	
4. SEED SIZE: (Mature Seed)		
1 8 Grams per 100 seeds		
5. HILUM COLOR: (Mature Seed)		
3 1 = Buff 2 = Yellow 3 = Brown	4 = Gray 5 = Imperfect Bla	ack 6 = Black 7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)		
1 = Yellow 2 = Green		
7. SEED PROTEIN PEROXIDASE ACTIVITY:		
1 = Low 2 = High		
8. SEED PROTEIN ELECTROPHORETIC BAND:		
West Bend, WI 53095 Choose the appropriate response which characterizes the variety in the features described below. When the number of significant digits in your answer is fewer than the number of boxes provided, place a zero in the first box when number is 9 or less (e.g., 0 9). 1. SEED SHAPE:		
9. HYPOCOTYL COLOR:		
1 = Green only ('Evans'; 'Davis') 2 = Green wit 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson';		'Woodworth'; 'Tracy')
0. LEAFLET SHAPE:		
3 = Ovate	4 = Other (Specify)	

• - • -	LET SIZE:	
3	1 = Small ('Amsoy 71'; 'A5312') 2 = Medium ('Corsoy 79'; 'Gasoy 17') 3 = Large ('Crawford'; 'Tracy')	
12. LEAF	COLOR:	
2	1 = Light Green ('Weber'; 'York') 2 = Medium Green ('Corsoy 79'; 'Braxton') 3 = Dark Green ('Gnome'; 'Tracy')	
13. FLOW	ER COLOR:	
I	1 = White 2 = Purple 3 = White with purple throat	
14. POD C	OLOR:	
2	1 = Tan 2 = Brown 3 = Black	
15. PLAN	PUBESCENCE COLOR:	
2	1 = Gray 2 = Brown (Tawny)	
16. PLAN	TYPES:	
3	1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Braxton') 3 = Bushy ('Gnome'; 'Govan')	
17. PLANT	FHABIT:	
[3]	1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')	
 	and the second s	
18. MATU	RITY GROUP:	
0 5	RITY GROUP: 1 = 000	8 = V
0 5	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV	8 = V
0 5 19. DISEA	1 = 000	8 = V .
0 5 19. DISEA	1 = 000	8 = V .
0 5 19. DISEA BACT	1 = 000	8 = V
0 5 19. DISEA	1 = 000	8 = V .
0 5 19. DISEA BACT	1 = 000	8 = V .
0 5 19. DISEA BACT 0 0	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X SE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) TERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli var. sojensis) Bacterial Blight (Pseudomonas glycinea)	8 = V.
0 5 19. DISEA BACT 0 0	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X SE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) TERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli var. sojensis) Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci)	8 = V
0 5 19. DISEA BACT 0 0 FUNGA	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X SE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) FERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli var. sojensis) Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) AL DISEASES: Brown Spot (Septoria glycines)	8 = V
0 5 19. DISEA BACT 0 0 FUNGA	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X SE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) TERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli var. sojensis) Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) AL DISEASES: Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina)	8 = V Other (Specify)
0 5 19. DISEA BACT 0 0 FUNGA	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X SE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) TERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli var. sojensis) Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) AL DISEASES: Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina)	
0 5 19. DISEA BACT 0 0 FUNGA 0	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X SE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) TERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli var. sojensis) Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) AL DISEASES: Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) Race 1 0 Race 2 0 Race 3 0 Race 4	
0 5 19. DISEA BACT 0 0 FUNGA 0	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X	
0 5 19. DISEA BACT 0 0 FUNG 0 0	1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 9 = VI 10 = VII 11 = VIII 12 = IX 13 = X SE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) TERIAL DISEASES: Bacterial Pustule (Xanthomonas phaseoli var. sojensis) Bacterial Blight (Pseudomonas glycinea) Wildfire (Pseudomonas tabaci) AL DISEASES: Brown Spot (Septoria glycines) Frogeye Leaf Spot (Cercospora sojina) Race 1	

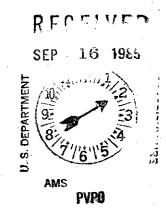
19. DIS	EASE REACTIO	N: (Enter 0 = Not Tested; 1 = Susceptible; 2 =	Resistant) (Continued)		
F	UNGAL DISEAS	ES: (Continued)			
L	Pod and Ste	m Blight <i>(Diaporthe phaseolorum</i> var; <i>sojae)</i>			
	Purple Seed	Stain (Cercospora kikuchii)		•	
	Rhizoctonia	Root Rot (Rhizoctonia solani)			
. •	Phytophtho	ra Rot (Phytophthora megasperma var. sojae)			
	2 Race 1	2 Race 2 2 Race 3 1	Race 4	2 Race 6	2 Race 7
	Race 8	2 Race 9 2 Other (Specify)	10,11,13,15,17		
	─ IRAL DISEASES	:			
	Bud Blight (Tobacco Ringspot Virus)			;
	ก	ic (Bean Yellow Mosaic Virus)			
	Ī	aic (Cowpea Chlorotic Virus)			
	วี	Bean Pod Mottle Virus)		•	E. was
	<u> </u>	(Soybean Mosaic Virus)	•		
<u>[0</u>	MATODE DISE		·		
141.	•	- -		•	
F-0	Race 1	t Nematode (Heterodera glycines)	Race 4 Other (Sp	aniful	
ر ا]		Race 4 Other (Sp		
0		ode (Hoplolaimus Colombus)			
ل_ا	.J	ot Knot Nematode (Meloidogyne incognita)			
[0	.] ¬	ot Knot Nematode (Meloidogyne Hapla)			
	Peanut Root	Knot Nematode (<i>Meloidogyne arenaria)</i>			y
0	Reniform Nei	matode (Rotylenchulus reniformis)			
	OTHER DISE	EASE NOT ON FORM (Specify):			
n PHYS	IOLOGICAL RE	SPONSES: (Enter 0 = Not Tested; 1 = Suscept	ible: 2 = Resistant)		
0	1	on Calcareous Soil			
]		•		
		//			
<u></u>]	(Enter 0 = Not Tested; 1 = Susceptible; 2 = Re	sistant)		
		Beetle (Epilachna varivestis)			
[0	·	opper (Empoasca fabae)	:		•
	Other (Specif)	/			
2. INDIC	ATE WHICH VA	RIETY MOST CLOSELY RESEMBLES THAT	SUBMITTED.		
СНА	RACTER	NAME OF VARIETY	CHARACTER	NAME O	F VARIETY
Plant S			Seed Coat Luster		
Leaf Sh	· · · · · · · · · · · · · · · · · · ·		Seed Size		-
Leaf Co			Seed Shape Seedling Pigmentation		
			Jessing Figure (1810)		8

	ID SIMILAR STANDARD VARIE	

VARIETY	NO. OF PLANT DAYS LODGING		CM. PLANT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
	MATURITY	SCORE	HEIGHT	CM Width	CM Length	% Protein	% Oil	SEEDS	POD
Submitted									
Name of Similar Variety									

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.



Dairyland Seed Company, Inc.

Addition to
Exhibit C - Objective Description of Variety

'DSR-297' has a 'dull' seed coat luster.



DAIRYLAND SEED CO., INC.

P.O. Box 958, West Bend, WI 53095

3570 Hwy. H 414-338-0163





October 28, 1986

8500210

PLANT VARIETY PROTECTION APPLICATION

EXHIBIT E

DSR-297 was originated and developed by the plant breeding team of Dr. Paul Sun, Dr. Bill Campbell, and Mr. Hunt Wiley. By agreement between these employess and Dairyland Seed Co., Inc., all rights to any invention, discovery, or development made by an employee are assigned to Dairyland Seed Co., Inc. No rights to such invention, discovery, or development are retained by the employees.